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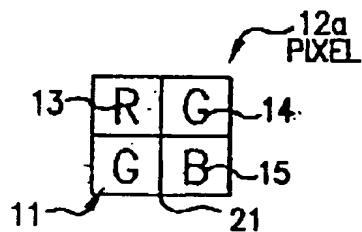


FIG.1a

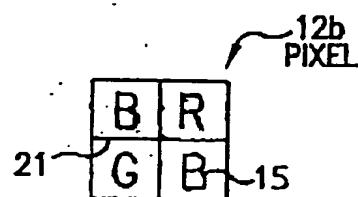


FIG.1b

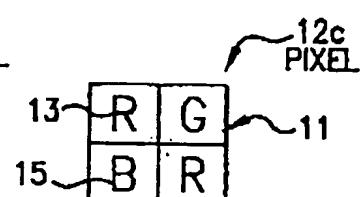


FIG.1c

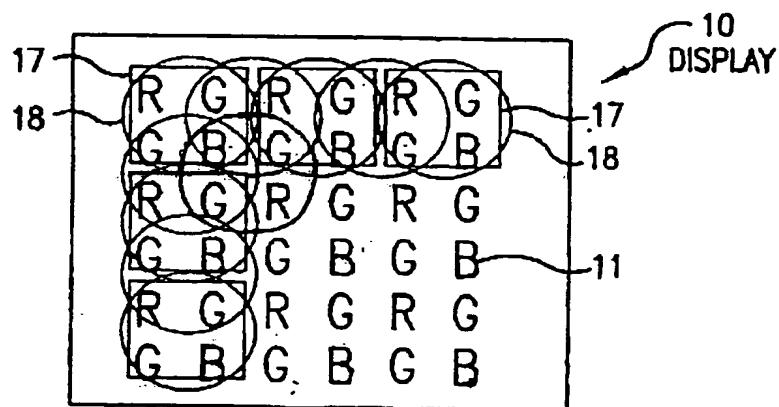


FIG.2a

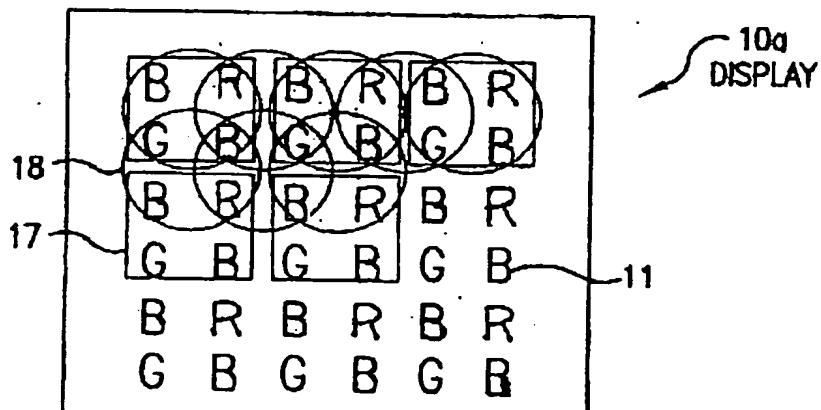


FIG.2b

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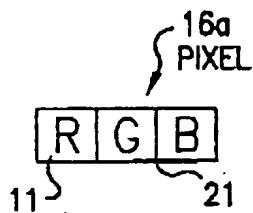


FIG.3a

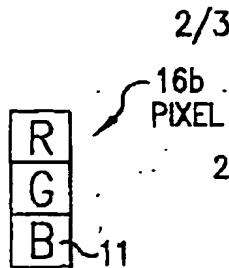


FIG.3b

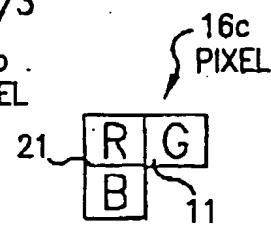


FIG.3c

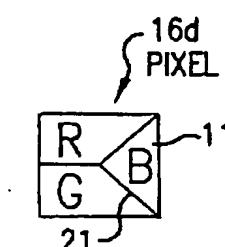


FIG.3d

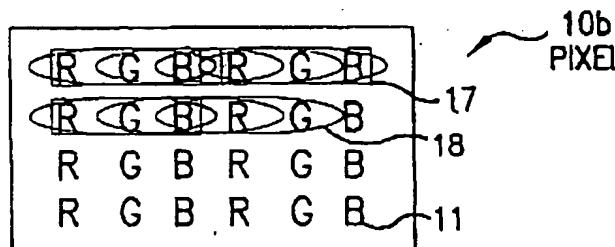


FIG.4a

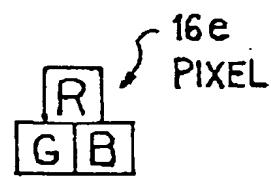


FIG.3e

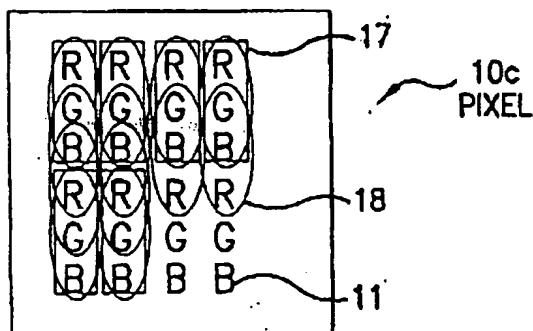


FIG.4b

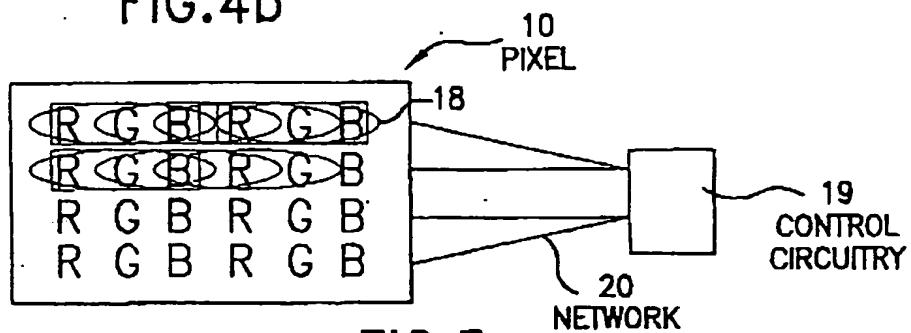


FIG.5

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$$\begin{array}{r}
 1 \text{ _____} \\
 2 \text{ _____} \\
 3 \text{ _____} \\
 4 \text{ _____} \\
 5 \text{ _____} \\
 6 \text{ _____} \\
 7 \text{ _____} \\
 \hline
 \end{array}
 =
 \begin{array}{r}
 2 \text{ _____} \\
 4 \text{ _____} \\
 6 \text{ _____} \\
 \hline
 \end{array}
 \begin{array}{l}
 \text{ } \\
 \hline
 \end{array}
 \begin{array}{r}
 1 \text{ _____} \\
 3 \text{ _____} \\
 5 \text{ _____} \\
 7 \text{ _____} \\
 \hline
 \end{array}
 +
 \begin{array}{r}
 \text{ } \\
 \hline
 \end{array}
 \begin{array}{r}
 23 \\
 24 \\
 \hline
 \end{array}
 \begin{array}{r}
 \text{ } \\
 \hline
 \end{array}
 \begin{array}{r}
 24 \\
 \hline
 \end{array}$$

FIG. 6

10 DISPLAY with 12a PIXEL

FIG. 7

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18

17

FIG. 8

18

A 7x7 grid of colored squares. The colors are arranged in a repeating pattern: Red, Green, Blue, Red, Green, Blue, Red, Green, Blue. The grid is as follows:
Row 1: R, G, B, R, G, B, R
Row 2: B, R, G, B, R, G, B
Row 3: R, G, B, R, G, B, R
Row 4: B, R, G, B, R, G, B
Row 5: R, G, B, R, G, B, R
Row 6: B, R, G, B, R, G, B
Row 7: R, G, B, R, G, B, R
A 3x3 square hole is centered in the grid, containing only black squares.

FIG. 8.1

17

A 6x6 grid of colored squares arranged in a 6x6 pattern. The colors are Red (R), Green (G), and Blue (B). The grid is as follows:
Row 1: R, G, B, R, G, B
Row 2: B, R, G, B, R, G
Row 3: R, G, B, R, G, B
Row 4: B, R, G, B, R, G
Row 5: R, G, B, R, G, B
Row 6: B, R, G, B, R, G
A small square box with a question mark is placed over the square at the intersection of the 4th column and the 3rd row.

FIG. 8.2

FIG. 8.3

FIG. 8.4

FIG. 8.5

FIG. 8.6

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R G B R G B R G B
B R G B R G B R
R G B R G B R G B
B R G B R G B R
R G B R G B R G B
B R G B R G B R

18 FIG. 8.7

R G B R G B R G B
B R G B R G B R
R G B R G B R G B
B R G B R G B R
R G B R G B R G B
B R G B R G B R

18 FIG. 8.8

R G B R G B R G B
B R G B R G B R
R G B R G B R G B
B R G B R G B R
R G B R G B R G B
B R G B R G B R

FIG. 8.9

R G B R G B R G B
B R G B R G B R
R G B R G B R G B
B R G B R G B R
R G B R G B R G B
B R G B R G B R

FIG. 8.10

R G B R G B R G B
B R G B R G B R
R G B R G B R G B
B R G B R G B R
R G B R G B R G B
B R G B R G B R

FIG. 8.11

R G B R G B R G B
B R G B R G B R
R G B R G B R G B
B R G B R G B R
R G B R G B R G B
B R G B R G B R

FIG. 8.12

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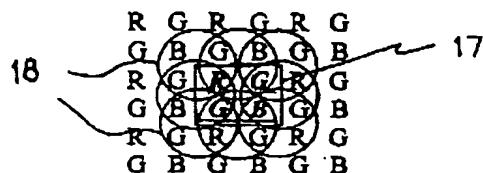


FIG. 9

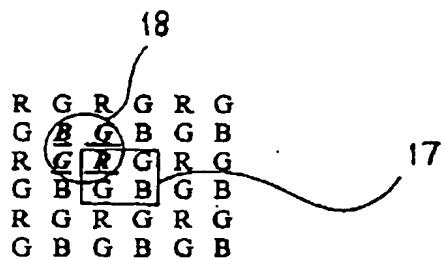


FIG. 9.1

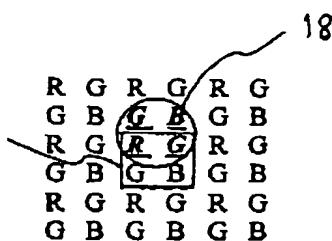


FIG. 9.2

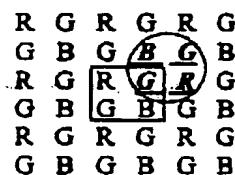


FIG. 9.3

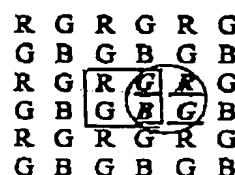


FIG. 9.4

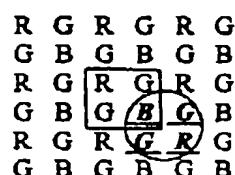


FIG. 9.5

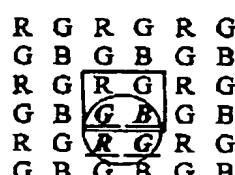


FIG. 9.6

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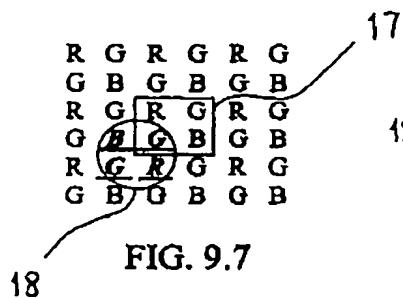


FIG. 9.7

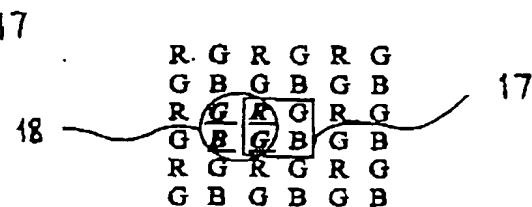


FIG. 9.8

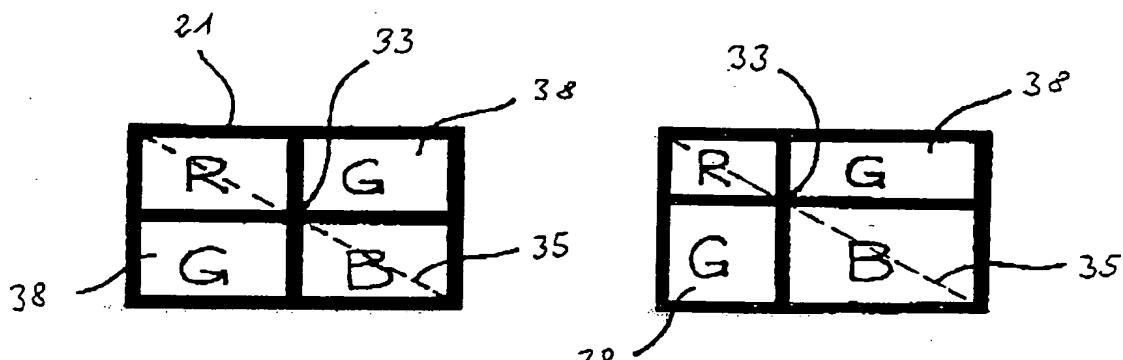


FIG. 10a

FIG. 10b

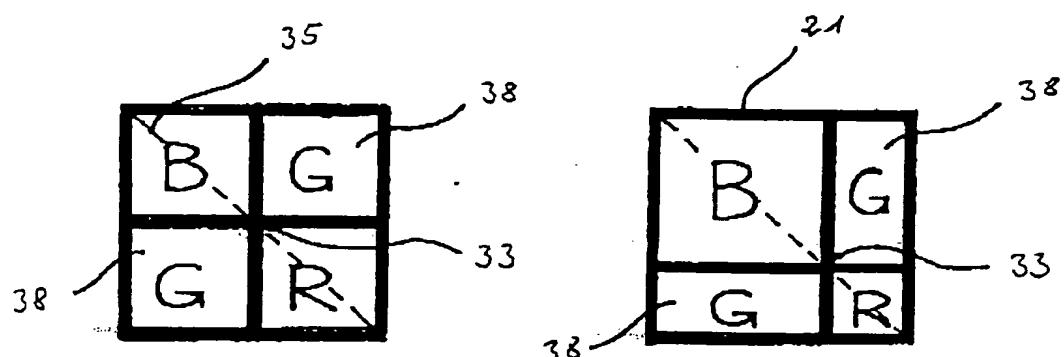


FIG. 11a

FIG. 11b

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Quad pixels Display with 480×640 static pixels resolution and 959×1279 inventive dynamic pixels resolution

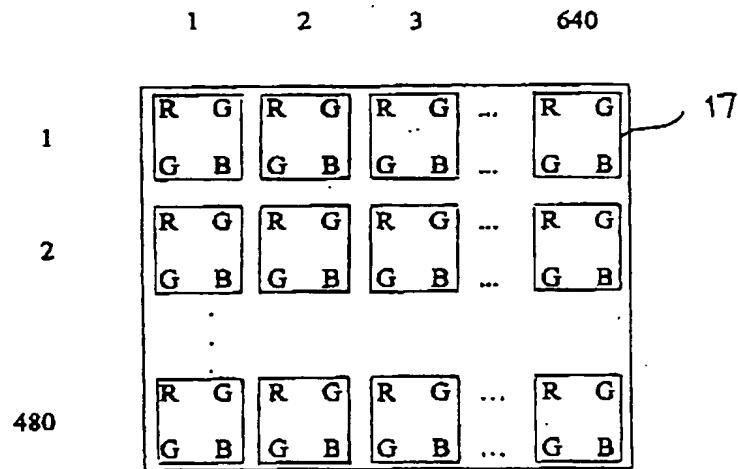


FIG. 12

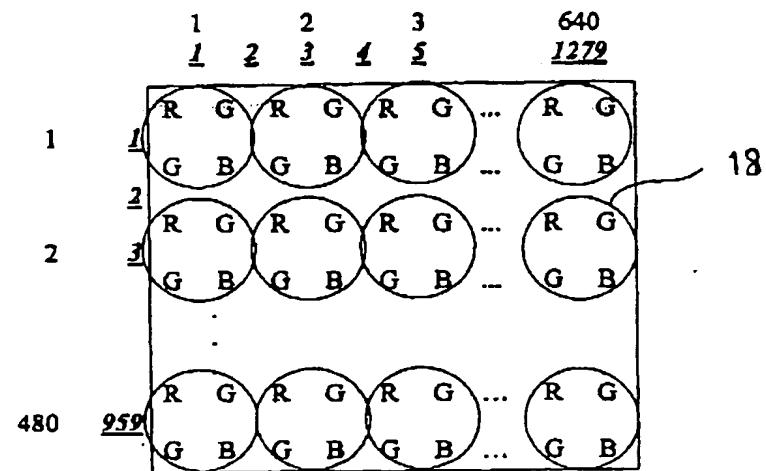


FIG. 12a

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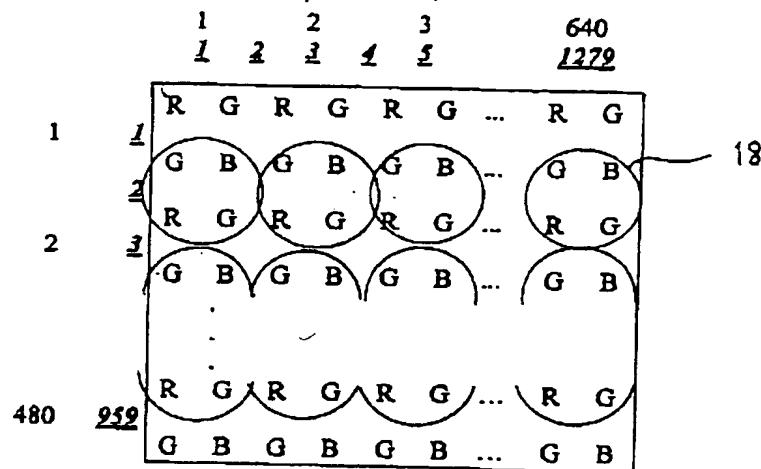


FIG. 12b

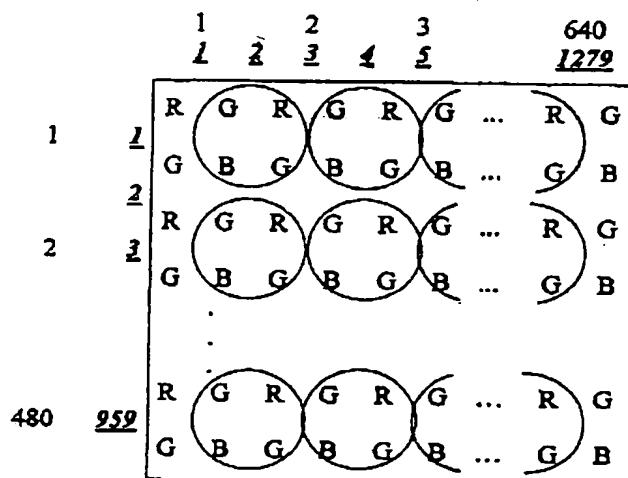


FIG. 12c

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	1	2	3	4	5	640	
	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>1279</u>	
1	R	G	R	G	R	G	18
2	G	B	G	B	G	B	
3	R	G	R	G	R	G	
	G	B	G	B	G	B	
	
480	<u>259</u>	R	G	R	G	R	G
		G	B	G	B	G	B

FIG. 12d

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17

1	2	3	4	5	6	7	8	9
RGB								
RGB								
RGB								
RGB								
RGB								

1
2
3
4
5

FIG. 13a Conventional RGB stripes display 9 x 5 pixels

18

1	2	3	4	5	6	7	8	9	10
R	G'	R	G'	R	G'	R	G'	R	G'
G'	B	G	B	G	B	G	B	G	B
R	G'	R	G'	R	G'	R	G'	R	G'
G	B	G	B	G	B	G	B	G	B
R	G'	R	G'	R	G'	R	G'	R	G'
G'	B	G	B	G	B	G	B	G	B

1
2
3
4
5
6

FIG. 13aa Invented display with dynamic resolution 9 x 5 pixels
Frame 1

$$G' = G'' = \frac{G}{2}$$

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17

1	2	3	4	5	6	7	8	9
RGB								
RGB								
RGB								
RGB								
RGB								

1
2
3
4
5

FIG. 13b Conventional RGB stripes display 9 x 5 pixels

18

1	2	3	4	5	6	7	8	9	10
R	G''								
G'	B	G	B	G'	B	G'	B	G'	B
R	G'	R	G'	R	G'	R	G'	R	G''
G'	B	G	B	G'	B	G'	B	G'	B
R	G''								
G'	B								

1
2
3
4
5
6

FIG. 13bb Invented display with dynamic resolution 9 x 5 pixels
Frame 2

$$G' = G'' = \frac{G}{2}$$

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17

1	2	3	4	5	6	7	8	9
RGB								
RGB								
RGB								
RGB								
RGB								

FIG. 13c Conventional RGB stripes display 9 x 5 pixels

18

1	2	3	4	5	6	7	8	9	10
R	G'	R	G''	R	G'	R	G''	R	G'
G'	B	G	B	G'	B	G'	B	G'	B
R	G'	R	G	R	G'	R	G'	R	G''
G'	B	G	B	G	B	G	B	G	B
R	G''	R	G''	R	G''	R	G''	R	G''
G'	B	G	B	G	B	G	B	G	B

FIG. 13cc Invented display with dynamic resolution 9 x 5 pixels
Frame 3

$$G' = G'' = \frac{G}{2}$$

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17

1	2	3	4	5	6	7	8	9	1
RGB	1								
RGB	2								
RGB	3								
RGB	4								
RGB	5								

FIG. 13d Conventional RGB stripes display 9 x 5 pixels

18

1	2	3	4	5	6	7	8	9	10	1
R	G''	1								
G'	B	2								
R	G''	3								
G'	B	4								
R	G''	5								
G'	B	6								

FIG. 13dd Invented display with dynamic resolution 9 x 5 pixels
Frame 4

$$G = G'' = \frac{G}{2}$$

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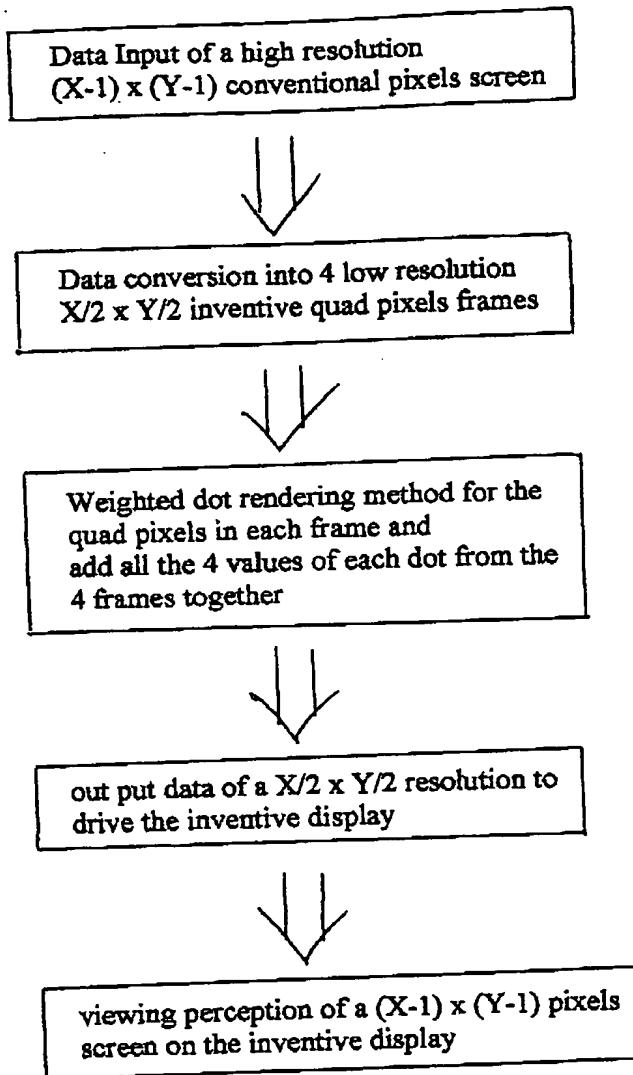


FIG. 13 e Principle of weighted dot rendering method to display a high resolution $(X-1) \times (Y-1)$ pixels screen on a low resolution $X/2 \times Y/2$ quad pixel screen of the inventive display with the perception of viewing a high resolution $(X-1) \times (Y-1)$ screen.